

## A NEW SPECIES OF *PETRAEOMASTUS* FROM GANSU, CHINA (STYLOMMAТОPHORA, ENOIDEA)

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**Abstract** A new enid species *Petraeomastus qii* sp. nov. is recognized from South Gansu. The new species differs from the congeners by the ovate-conic shell, the acuminate apex, the oblique columella and the shell measurement features.

**Key words** Taxonomy, Enidae, shell morphology, West China.

With 20 species and three subspecies, *Petraeomastus* Möllendorff, 1901 (Enidae Woodward, 1903; Enoidea Woodward, 1903) is an enid genus endemic to South Gansu Plateau and a very limited Region of Yunnan (Ancey, 1884; Heude, 1882, 1890; Hilber, 1883; Kobelt, 1899–1902; Möllendorff, 1901; Pilsbry, 1934; Sturany, 1900; Wiegmann, 1901; Yen, 1938, 1939, 1942; Zilch, 1974). Compared to the other China's enid genus, the genus *Petraeomastus* comprises a group of morphologically diverse species, all showing simple aperture and unstriated and more or less cylindrical shell.

The current paper reports a new member of the genus *Petraeomastus*. The shell was measured, taken to the nearest 0.1 mm with a calibrated digital vernier caliper. Whorl numbers were counted as described by Kerney & Cameron (1979) and taken with 1/8 (0.125) whorl accuracy.

### *Petraeomastus Möllendorff, 1901*

*Buliminus* (*Petraeomastus*) Möllendorff, 1901: 348; Wiegmann, 1901: 261.

Type species: *Buliminus heudeanus* Ancey, 1883; original designation.

### *Petraeomastus qii* sp. nov. (Figs 1–3)

Diagnosis. Shell ovate-conic. Apex acuminate. Columella oblique. Shell height 10.8 mm, diameter major 7.1 mm; with 6 whorls.

Holotype HBUMM06530-specimen 1, an old fully mature shell, Wenxian County, Gansu (32°56'N, 104°40'E; alt. 1 024 m), 8 Aug. 2011, coll. WU Min, XU Qin and Prem B. Buhda. The type is deposited in the Museum of Hebei University, Baoding, China.

Distribution. Gansu, known only from type locality.



Figs 1–3. *Petraeomastus qii* sp. nov., HBUMM06530-specimen 1, holotype. 1. Apertural view. 2. Lateral view. 3. Ab-apertural view. Scale bar = 2 mm.

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Shell. Ovate-conic; dextral; thin-shelled; solid; opaque; with most swollen part occurred at body whorl; with 6 whorls; height 10.8 mm; diameter major 7.1 mm. Height/diameter major ratio 1.53. Apex acuminate. Growthlines fine; clear. Whorls convex; not speckled; never spirally grooved; not shouldered. Embryonic shell smooth; polished; 1.5 whorls. Postnuclear whorls smooth. Suture normal, without narrow defined zone on beneath whorl. Last whorl gradually ascending towards aperture; rounded at periphery; without smoothed spiral peripheral depression or rugate region. Aperture in a plane and straight; truncate-ovate; with insertions separated; vertical; completely attached to body whorl; not armed; weakly with angular tubercle; 5.1 mm high; 3.8 mm broad. Ratio of shell height to aperture height 2.14. Secondary aperture absent. Peristome sharp; slightly expanded; reflexed, without distinct cuff. Parietal callus indistinct. Columellar margin reflexed. Columnella oblique abaxially. Outer edge of columellar lip oblique. Umbilicus widely open. Shell uniformly colored in yellowish brown.

**Etymology.** The new species is named after a respectable malacologist, Professor QI Zhong-Yan who has been working on China's marine molluscs for more than half a century; noun.

**Taxonomic remarks.** The new species is conchologically closed to *Petraeomastus gredleri* (Hilber, 1883), which is distributed southerly in Yunnan. However the latter species is larger in size, and is with a bullet-shaped rather than apically acuminate and with a vertical columella.

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## 中国甘肃南部鸟唇螺属(柄眼目, 艾纳螺总科)一新种描述

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**摘要** 描述了栖息于甘肃南部的陆贝艾纳螺科1新种, 齐氏鸟唇螺 *Petraeomastus qii* sp. nov.。新种以贝壳壳顶尖出、轴唇倾斜及测量特征与各已知种相区别。

**齐氏鸟唇螺, 新种 *Petraeomastus qii* sp. nov. (图1~3)**

**鉴别特征** 贝壳呈卵锥状, 壳顶尖出, 螺轴倾斜。壳高10.8 mm, 壳径7.1 mm, 螺层数6。

**关键词** 分类学, 艾纳螺科, 贝壳形态, 中国西部。

**中图分类号** Q959.212

正模, HBUMM06530-specimen 1, 成体; 甘肃文县(32°56'N, 104°40'E; 海拔1024 m); 2011-08-08; 吴岷、徐沁、Prem B. Buhda采。标本保存于河北大学博物馆。

**词源:** 新种种名源自我国贝类学家齐鍾彦教授的姓氏; 名词。

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